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SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
DIVISION DE NUEVAS CREACIONES

E. S. D.

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
Rad: 06-109669-00002-0000
Rec: 2007-02-12 15:53:31 Dep. 2007 NUEVAS CREACIONES
Of. 11 PATENTE
EVR: 3/0 HABENACUMALI
Act 444 RESPUESTA NECUE Folio: 170

Re.: Expediente No. 06 109.669

Solicitud de patente PCT fase nacional

Solicitud internacional No. PCT/US2005/009774

Titular: MILLENIUM PHARMACEUTICALS INC.

Yo, LUIS PATIÑO LEYVA, vecino de Bogotá D.C., portador de la tarjeta profesional No. 2698, obrando como apoderado en este negocio, manifiesto a usted que doy respuesta al Oficio No. 14710 notificado por estado el 22 de Diciembre de 2006 en los siguientes términos:

- Acompaño documento de cesión de los inventores al solicitante del registro de patente debidamente traducido y legalizado.

De igual manera, me permito aclararle a su Despacho que la fecha real de publicación internacional es 20 de Octubre de 2005.

Señor Superintendente,


LUIS PATIÑO LEYVA

C.C. No. 2.930.616 de Bogotá

T.P. No. 2698

12 FEB. 2007

APOSTILLE*(Convention de La Haye du 5 octobre 1961)*

1. Country: United States of America

This public document

2. has been signed by E. Bornett

3. acting in the capacity of Certifying Officer

4. bears the seal/stamp of U.S. Patent and Trademark Office

Certified

5. at Washington, D.C.

6. the nineteenth of October, 2006

7. by Assistant Authentication Officer, United States Department of State

8. No. 07001951-13

9. Seal/Stamp:

10. Signature:

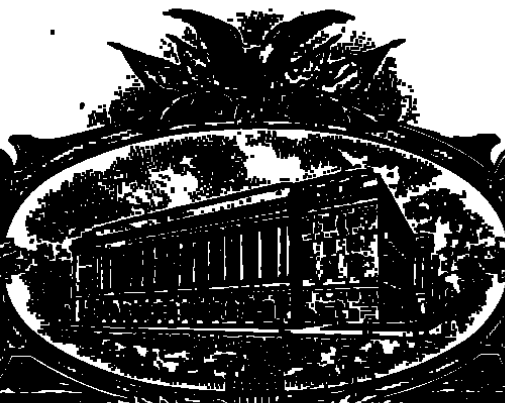


Patrick O. Hatchett

21

294

A 1314778



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

UNITED STATES DEPARTMENT OF COMMERCE

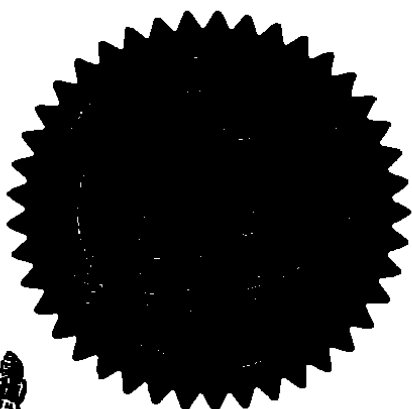
United States Patent and Trademark Office

May 03, 2005

**THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE
RECORDS OF THIS OFFICE OF A DOCUMENT RECORDED ON
October 18, 2004.**

**By Authority of the
COMMISSIONER OF PATENTS AND TRADEMARKS**

**E. BORNETT
Certifying Officer**



295

FORM PTO-1588 (Rev. 8-83)		10-20-2004		EET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
OMB No. 0851-0011 (exp. 4/04)		102863087			
To the Honorable Commissioner of Patents and Trademarks: ☒ Attached original documents or copy thereof.					
1. Name of conveying party(ies): Fraser Pickersgill Execution Date: September 13, 2004 Millennium Pharmaceuticals, Inc., 40 Landsdowne Street, Cambridge, MA 02139 Additional name(s) of conveying parties attached? ☒ Yes ☐ No			2. Name and address of receiving party (ies): Name: <u>Millennium Pharmaceuticals, Inc.</u> Internal Address: _____ Street Address: <u>40 Landsdowne Street</u> City: <u>Cambridge</u> State: <u>MA</u> Zip: <u>02139</u> Additional name(s) & address(es) attached? ☐ Yes ☒ No		
3. Nature of conveyance: ☒ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other _____					
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application No.(s) <u>60/557,535</u> B. Patent No.(s) _____ Additional Numbers attached? ☐ Yes ☒ No					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Janice M. Kunder</u> Internal Address: <u>Millennium Pharmaceuticals, Inc.</u> Street Address: <u>40 Landsdowne Street</u> City: <u>Cambridge</u> State: <u>MA</u> ZIP: <u>02139</u>			6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41) \$40.00 ☐ Enclosed ☒ Authorized to be charged to deposit account 8. Deposit account number: <u>501888</u> (Attach duplicate copy of this page if paying by deposit account)		
DO NOT USE THIS SPACE					
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. <u>Janice M. Kunder, Reg. No. 41,121</u> <u>Janice M. Kunder</u> <u>October 18, 2004</u> Name of Person Signing Signature Date Total number of pages including cover sheet, attachments, and document: <u>94</u>					

Mail documents to be recorded with required cover sheet information to:
 Mail Stop Assignment Registration Services,
 Director - U.S. Patent and Trademark Office
 P.O. Box 1450, Alexandria, VA 22313-1450

10/19/2004 07:00:00 00000000 301644 60557535
 01 FC:0001 40.00 18

PATENT
 REEL: 015893 FRAME: 0719

2

John Bishop
Millennium Pharmaceuticals, Inc.
40 Landsdowne Street,
Cambridge, MA 02139
United States

Execution Date: September 14, 2004

Christoph Koellner
AMCIS AG
Hauptstrasse 159-173
CH-4416 Bubendorf
Switzerland

Execution Date: September 22, 2004

Jean-Marc Gomez
AMCIS AG
Hauptstrasse 159-173
CH-4416 Bubendorf
Switzerland

Execution Date: September 20, 2004

Achim Geiser
CarboGen Laboratories (Neuland) AG
Neulandweg 5
CH-5502 Hunzenschwil
Switzerland

Execution Date: September 24, 2004

Robert Hett
CarboGen Laboratories (Neuland) AG
Neulandweg 5
CH-5502 Hunzenschwil
Switzerland

Execution Date: September 24, 2004

Vince Ammoscato
Ash Stevens, Inc.
18655 Krause Street
Riverview, Michigan 48192
United States

Execution Date: September 17, 2004

PATENT
REEL: 016893 FRAME: 0720

Provisional Patent Application No. 60/557,535

(Page 3 of 3)

**Stephen Munk
Ash Stevens, Inc.
18655 Krause Street
Riverview, Michigan 48192
United States**

Execution Date: September 17, 2004

**Young Lo
Boehringer Ingelheim Chemicals, Inc.
2820 North Normandy Drive
P.O. Box 1658
Petersburg, Virginia 23805-9372**

Execution Date: September 20, 2004

**Fang-Ting Chiu
Boehringer Ingelheim Chemicals, Inc.
2820 North Normandy Drive
P.O. Box 1658
Petersburg, Virginia 23805-9372**

Execution Date: September 20, 2004

**Vithalanand R. Kulkarni
Boehringer Ingelheim Chemicals, Inc.
2820 North Normandy Drive
P.O. Box 1658
Petersburg, Virginia 23805-937**

Execution Date: September 22, 2004

**PATENT
REEL: 015893 FRAME: 0721**

6

51
298

Practitioner's Docket No. **MP183-102P1M**

PATENT

For: U.S. and Foreign Rights
For: U.S. Application
By: Inventors

ASSIGNMENT OF INVENTION

WHEREAS,

ASSIGNORS:

Fraser Pickersgill
Millennium Pharmaceuticals, Inc., 40 Landsdowne Street, Cambridge, MA 02139
Nationality: United Kingdom

John Bishop
Millennium Pharmaceuticals, Inc., 40 Landsdowne Street, Cambridge, MA 02139
Nationality: United States

Christoph Koellner
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Jean-Marc Gomez
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Achim Geiser
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Robert Hett
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Vincent Ammoscato
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

Stephen Munk
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

PATENT
REEL: 016893 FRAME: 0722

*

51.

299

Young Lo
Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

Fang-Ting Chiu
Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

Vithal Kulkarni
Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

have co-invented a certain invention entitled:

SYNTHESIS OF BORONIC ESTER AND ACID COMPOUNDS

for which they have executed an application for a United States patent, which was filed on March 30, 2004, under U.S. Application No. 60/557,535; and

WHEREAS,

ASSIGNEE:
MILLENNIUM PHARMACEUTICALS, INC.
40 Landdowne Street
Cambridge, MA 02139
State of Incorporation: Delaware

is desirous of acquiring ASSIGNORS' entire domestic and foreign right, title, and interest in and under the invention described in the patent application;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby, without reservations, sell, assign and transfer to

(Page 2 of 9)

PATENT
REEL: 016893 FRAME: 0723

8

51
300

Practitioner's Docket No. MPI03-109P1M

ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and to the invention in the United States and in every foreign country, and our entire right, title, and interest in and to the patent application and such other applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications and utility model applications) as may be filed on the invention in the United States or in any foreign country, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon; said invention, applications, and patents to be held and enjoyed by ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

ASSIGNORS hereby authorize the ASSIGNEE to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

ASSIGNORS hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein. ASSIGNORS further acknowledge that this assignment carries with it the right in ASSIGNEE to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the United States application (or any other application on the invention) to gain priority with respect to other applications.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that we will at any time upon request, without further or additional consideration, but at the expense of the ASSIGNEE, execute and deliver such additional assignments and other writings and do such additional acts as the ASSIGNEE may deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the United States or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representative of all parties hereto.

AND, ASSIGNORS do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

(Page 3 of 9)

PATENT
REEL: 015893 FRAME: 0724

9



301

Practitioner's Docket No. MP03-102P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this 13th day of SEPTEMBER, 2004.

I. F. Pickens III
Signature of Fraser Pickens III

William Ellyson 380 Carter Road Princeton NJ 08540
Witness Address

Wendy J. Dzenewski 350 Carter Rd. Princeton NJ 08540
Witness Address

WENDY M. DZENIEWSKI
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 4/1/2006

IN WITNESS WHEREOF, I have hereunto set hand and seal this 13th day of September, 2004.

Signature of John Bishop

Witness Address

Witness Address

78

302

Practitioner's Docket No. MPN3-192F1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Christoph Koellner

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Achim Gelser

Witness

Address

Witness

Address

(Page 5 of 9)

PATENT
REEL: 016893 FRAME: 0726

tt

303

Practitioner's Docket No. MP183-182P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Robert Hett

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vincent Ammesento

Witness Address

Witness Address

(Page 6 of 9)

PATENT
REEL: 015893 FRAME: 0727

72

304

Practitioner's Docket No. MP893-109P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Stephen Munk

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Young Lo

Witness

Address

Witness

Address

(Page 7 of 9)

PATENT
REEL: 016893 FRAME: 0728

13

305



Practitioner's Docket No. MP03-107P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Jean-Marc Gomez

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fang-Ting Chiu

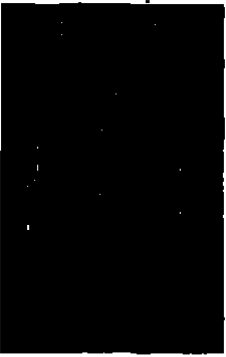
Witness Address

Witness Address

(Page 8 of 9)

PATENT
REEL: 015893 FRAME: 0729

74



Practitioner's Docket No. MP03-10271M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vithal Kulkarni

Witness Address

Witness Address

TS

307

Practitioner's Docket No. **MP83-102F1M**

PATENT

For: U.S. and Foreign Rights
For: U.S. Application
By: Inventors

ASSIGNMENT OF INVENTION

WHEREAS,

ASSIGNORS:

Fraser Pickensgill
Millennium Pharmaceuticals, Inc., 40 Landsdowne Street, Cambridge, MA 02139
Nationality: United Kingdom

John Bishop
Millennium Pharmaceuticals, Inc., 40 Landsdowne Street, Cambridge, MA 02139
Nationality: United States

Christoph Koellner
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Jean-Marc Gomez
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Achim Geiser
CarboGen Laboratorics (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Robert Hett
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Vincent Ammoscato
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

Stephen Munk
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

PATENT
REEL: 016893 FRAME: 0731

76

Practitioner's Docket No. MP193-199P1M

Young Lo

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

Fang-Ting Chiu

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

Vithal Kulkarni

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

have co-invented a certain invention entitled:

SYNTHESIS OF BORONIC ESTER AND ACID COMPOUNDS

for which they have executed an application for a United States patent, which was filed on March 30, 2004, under U.S. Application No. 60/557,535; and

WHEREAS,

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
40 Landsdowne Street
Cambridge, MA 02139
State of Incorporation: Delaware

is desirous of acquiring ASSIGNORS' entire domestic and foreign right, title, and interest in and under the invention described in the patent application;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby, without reservations, sell, assign and transfer to

(Page 2 of 9)

PATENT
REEL: 016893 FRAME: 0732

Practitioner's Docket No. MPM3-102P1M

ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and to the invention in the United States and in every foreign country, and our entire right, title, and interest in and to the patent application and such other applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications and utility model applications) as may be filed on the invention in the United States or in any foreign country, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon; said invention, applications, and patents to be held and enjoyed by ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

ASSIGNORS hereby authorize the ASSIGNEE to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

ASSIGNORS hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein. ASSIGNORS further acknowledge that this assignment carries with it the right in ASSIGNEE to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the United States application (or any other application on the invention) to gain priority with respect to other applications.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that we will at any time upon request, without further or additional consideration, but at the expense of the ASSIGNEE, execute and deliver such additional assignments and other writings and do such additional acts as the ASSIGNEE may deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the United States or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representative of all parties hereto.

AND, ASSIGNORS do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

(Page 3 of 9)

PATENT
REEL: 016893 FRAME: 0733

78

21

310

Practitioner's Docket No. MP183-102P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fraser Pickering III

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this 14TH day of SEPTEMBER, 2004.

John Bishop

Signature of John Bishop

Justin M. P. [Signature] 24 Whitney St. Saugus, MA 01906

Witness Address

Sabine Vorst 15 Hancock St., Milford, MA 01757

Witness Address

(Page 4 of 9)

PATENT
REEL: 015893 FRAME: 0734

79

Practitioner's Docket No. **MPI03-102P1M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Christoph Koellner

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Achim Gelsner

Witness Address

Witness Address

Practitioner's Docket No. ~~MP03-102P1M~~

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Robert Hott

Witness Address

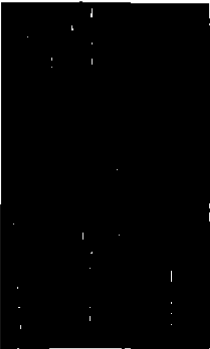
Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vincent Ammoscato

Witness Address

Witness Address



Practitioner's Docket No. **MP103-102P1M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Stephen Munk

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Young Lo

Witness Address

Witness Address

28

Practitioner's Docket No. **MEM3-102P1M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Jean-Marc Gomez

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fang-Ting Chia

Witness Address

Witness Address

Practitioner's Docket No. **MP103-102P1M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vitthal Kulkarni

Witness

Address

Witness

Address

(Page 9 of 9)

PATENT
REEL: 016893 FRAME: 0739

Practitioner's Docket No. ME83-192P1M

PATENT

For: U.S. and Foreign Rights
For: U.S. Application
By: Inventors

ASSIGNMENT OF INVENTION

WHEREAS,

ASSIGNORS:

Fraser Pickersgill
Millennium Pharmaceuticals, Inc., 40 Landsdowne Street, Cambridge, MA 02139
Nationality: United Kingdom

John Bishop
Millennium Pharmaceuticals, Inc., 40 Landsdowne Street, Cambridge, MA 02139
Nationality: United States

Christoph Koellner
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: ~~Switzerland~~ *Germany* *CH 22. Sept. 2004*

Jean-Marc Gomez
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Achim Geiser
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Robert Hett
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Vincent Ammoscato
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

Stephen Munk
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

PATENT

REEL: 016893 FRAME: 0740

Practitioner's Docket No. **MP183-102P1M**

Young Lo
Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

Fang-Ting Chiu
Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

Vithal Kulkarni
Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

have co-invented a certain invention entitled:

SYNTHESIS OF BORONIC ESTER AND ACID COMPOUNDS

for which they have executed an application for a United States patent, which was filed on March 30, 2004, under U.S. Application No. 60/557,535; and

WHEREAS,

ASSIGNEE:
MILLENNIUM PHARMACEUTICALS, INC.
40 Landsdowne Street
Cambridge, MA 02139
State of Incorporation: Delaware

is desirous of acquiring ASSIGNORS' entire domestic and foreign right, title, and interest in and under the invention described in the patent application;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby, without reservations, sell, assign and transfer to

(Page 2 of 9)

PATENT
REEL: 015893 FRAME: 0741

Practitioner's Docket No. MP103-10971M

ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and to the invention in the United States and in every foreign country, and our entire right, title, and interest in and to the patent application and such other applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications and utility model applications) as may be filed on the invention in the United States or in any foreign country, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon; said invention, applications, and patents to be held and enjoyed by ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

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ASSIGNORS hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein. ASSIGNORS further acknowledge that this assignment carries with it the right in ASSIGNEE to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the United States application (or any other application on the invention) to gain priority with respect to other applications.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that we will at any time upon request, without further or additional consideration, but at the expense of the ASSIGNEE, execute and deliver such additional assignments and other writings and do such additional acts as the ASSIGNEE may deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the United States or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representative of all parties hereto.

AND, ASSIGNORS do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

(Page 3 of 9)

**PATENT
REEL: 016893 FRAME: 0742**

Practitioner's Docket No. MP183-102P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fraser Pickersgill

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of John Bishop

Witness Address

Witness Address

Practitioner's Docket No. MP183-102P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this 22. day of September, 2004.

Christoph Keelner
Signature of Christoph Keelner

Christian Köder Hauptstr. 79, 4437 Waldenburg
Witness Address

Jan Kiefer Edelstr. 41, 4415 Dinslaken
Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Achim Gelsner

Witness Address

Witness Address

(Page 5 of 9)

PATENT
REEL: 015893 FRAME: 0744

Practitioner's Docket No. **MPM3-10271M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Robert Hett

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vincent Ammescato

Witness Address

Witness Address

Practitioner's Docket No. **MP163-16721M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Stephen Munk

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Young Lo

Witness

Address

Witness

Address

(Page 7 of 9)

PATENT
REEL: 015893 FRAME: 0746

Practitioner's Docket No. **MP183-18271M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Jean-Marc Gomez

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fang-Ting Chia

Witness

Address

Witness

Address

(Page 8 of 9)

PATENT
REEL: 016893 FRAME: 0747

Practitioner's Docket No. MP183-102P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vithal Kulkarni

Witness Address

Witness Address

(Page 9 of 9)

PATENT
REEL: 016893 FRAME: 0748

Practitioner's Docket No. **MP183-109P1M**

PATENT

For: U.S. and Foreign Rights
For: U.S. Application
By: Inventors

ASSIGNMENT OF INVENTION

WHEREAS,

ASSIGNORS:

Fraser Pickersgill
Millennium Pharmaceuticals, Inc., 40 Landsdowne Street, Cambridge, MA 02139
Nationality: United Kingdom

John Bishop
Millennium Pharmaceuticals, Inc., 40 Landsdowne Street, Cambridge, MA 02139
Nationality: United States

Christoph Koellner
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Jean-Marc Gomez
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: ~~Switzerland~~ *FRANCE* *his invention.*

Achim Geiser
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Robert Hett
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Vincent Ammoscato
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

Stephen Munk
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

PATENT
REEL: 015893 FRAME: 0749

Practitioner's Docket No. MP183-187P1M

Young Lo

**Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States**

Fang-Ting Chiu

**Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States**

Vithal Kulkarni

**Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States**

have co-invented a certain invention entitled:

SYNTHESIS OF BORONIC ESTER AND ACID COMPOUNDS

for which they have executed an application for a United States patent, which was filed on March 30, 2004, under U.S. Application No. 60/557,535; and

WHEREAS,

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.

40 Landsdowne Street

Cambridge, MA 02139

State of Incorporation: Delaware

is desirous of acquiring ASSIGNORS' entire domestic and foreign right, title, and interest in and under the invention described in the patent application;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby, without reservations, sell, assign and transfer to

(Page 2 of 9)

**PATENT
REEL: 016893 FRAME: 0760**

326

Practitioner's Docket No. MPH3-1991M

ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and to the invention in the United States and in every foreign country, and our entire right, title, and interest in and to the patent application and such other applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications and utility model applications) as may be filed on the invention in the United States or in any foreign country, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon; said invention, applications, and patents to be held and enjoyed by ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

ASSIGNORS hereby authorize the ASSIGNEE to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

ASSIGNORS hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein. ASSIGNORS further acknowledge that this assignment carries with it the right in ASSIGNEE to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the United States application (or any other application on the invention) to gain priority with respect to other applications.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that we will at any time upon request, without further or additional consideration, but at the expense of the ASSIGNEE, execute and deliver such additional assignments and other writings and do such additional acts as the ASSIGNEE may deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, renewed, reexamined, and National phase patents of the United States or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representative of all parties hereto.

AND, ASSIGNORS do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

(Page 3 of 9)

PATENT
REEL: 015893 FRAME: 0751

Practitioner's Docket No. MP183-109P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fraser Pickersgill

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of John Bishop

Witness Address

Witness Address

Practitioner's Docket No. MP03-109F1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Christoph Koellner

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Achim Gelsner

Witness Address

Witness Address

(Page 5 of 9)

PATENT
REEL: 015893 FRAME: 0763

Practitioner's Docket No. **MPHS-197P1M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Robert Hett

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vincent Ammoscato

Witness

Address

Witness

Address

(Page 6 of 9)

PATENT
REEL: 015893 FRAME: 0754

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Stephen Munk

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Young Lo

Witness Address

Witness Address

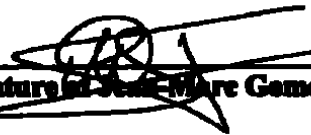
(Page 7 of 9)

PATENT
REEL: 015893 FRAME: 0766

91
332

Practitioner's Docket No. MP03-109F1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this 20 day of September, 2004.


Signature of Jean-Marc Gomez

André Kirsch APCIS AG Hauptstr. 159 CH-4416 Bubendorf
Witness Address

Bruno Schaub, Ph.D., APCIS AG, Hauptstr. 171, CH-4416 Bubendorf
Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fang-Ting Chiu

Witness Address

Witness Address

(Page 8 of 9)

PATENT
REEL: 016893 FRAME: 0768

41

Practitioner's Docket No. **MPH3-102P1M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vitthal Kulkarni

Witness

Address

Witness

Address

(Page 9 of 9)

PATENT
REEL: 016893 FRAME: 0767

Practitioner's Docket No. MP03-102P1M

PATENT

For: U.S. and Foreign Rights
For: U.S. Application
By: Inventors

ASSIGNMENT OF INVENTION

WHEREAS,

ASSIGNORS:

Fraser Pickersgill
Millennium Pharmaceuticals, Inc., 40 Landsdowne Street, Cambridge, MA 02139
Nationality: United Kingdom

John Bishop
Millennium Pharmaceuticals, Inc., 40 Landsdowne Street, Cambridge, MA 02139
Nationality: United States

Christoph Koellner
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Jean-Marc Gomez
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Achim Geiser
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: ~~Switzerland~~ *Germany changed 11-1-04*

Robert Hett
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: ~~Switzerland~~ *Germany changed 24 Sep 2004 R.Y.*

Vincent Ammoscato
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

Stephen Munk
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

PATENT
REEL: 016893 FRAME: 0768

Practitioner's Docket No. **MP103-102P1M**

Young Lo
Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

Pang-Ting Chiu
Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

Vithal Kulkarni
Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

have co-invented a certain invention entitled:

SYNTHESIS OF BORONIC ESTER AND ACID COMPOUNDS

for which they have executed an application for a United States patent, which was filed on March 30, 2004, under U.S. Application No. 60/557,535; and

WHEREAS,

ASSIGNEE:
MILLENNIUM PHARMACEUTICALS, INC.
40 Landsdowne Street
Cambridge, MA 02139
State of Incorporation: Delaware

is desirous of acquiring ASSIGNORS' entire domestic and foreign right, title, and interest in and under the invention described in the patent application;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby, without reservations, sell, assign and transfer to

(Page 2 of 9)

PATENT
REEL: 015893 FRAME: 0769

Practitioner's Docket No. MPH3-102P1M

ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and to the invention in the United States and in every foreign country, and our entire right, title, and interest in and to the patent application and such other applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications and utility model applications) as may be filed on the invention in the United States or in any foreign country, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon; said invention, applications, and patents to be held and enjoyed by ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

ASSIGNORS hereby authorize the ASSIGNEE to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

ASSIGNORS hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein. ASSIGNORS further acknowledge that this assignment carries with it the right in ASSIGNEE to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the United States application (or any other application on the invention) to gain priority with respect to other applications.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that we will at any time upon request, without further or additional consideration, but at the expense of the ASSIGNEE, execute and deliver such additional assignments and other writings and do such additional acts as the ASSIGNEE may deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the United States or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representative of all parties hereto.

AND, ASSIGNORS do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

(Page 3 of 9)

PATENT
REEL: 016893 FRAME: 0760

Practitioner's Docket No. **MPK93-19971M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fraser Pickersgill

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of John Bishop

Witness

Address

Witness

Address

(Page 4 of 9)

PATENT
REEL: 016893 FRAME: 0761

51
338

Practitioner's Docket No. ME03-102P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Christoph Koellner

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this 24 day of September, 2004.

Achim Geiser

Signature of Achim Geiser

Andreas Krotz Andreas Krotz Grünicherweg 22, 5502 Nassau-scheidt

Witness Address

Hans-Ulrich Hans-Ulrich Amalweg 14 64-5102 Rupperts

Witness Address

(Page 5 of 9)

PATENT
REEL: 015893 FRAME: 0762

48

Practitioner's Docket No. **MPH3-109F1M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this 24 day of September, 2004.

Robert Hett
Signature of Robert Hett

Hanns Grund
Witness

Mawstadt 23, 5600 Lenzburg
Address

Antonio Sar.
Witness

STEINFELDSTRASSE 24, 7033 Biberach AG
Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vincent Annoscato

Witness

Address

Witness

Address

(Page 6 of 9)

PATENT
REEL: 016893 FRAME: 0763

 Practitioner's Docket No. MPK3-102F1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Stephen Munk

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Young Le

Witness Address

Witness Address

(Page 7 of 9)

PATENT
REEL: 016893 FRAME: 0764

Practitioner's Docket No. **MP103-102P1M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Jean-Marc Gomez

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fang-Ting Chia

Witness

Address

Witness

Address

(Page 3 of 9)

PATENT
REEL: 015893 FRAME: 0765

SD



Practitioner's Docket No. MP03-10721M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vithal Kulkarni

Witness Address

Witness Address

Practitioner's Docket No. **MP783-192P1M**

PATENT

For: U.S. and Foreign Rights
For: U.S. Application
By: Inventors

ASSIGNMENT OF INVENTION

WHEREAS,

ASSIGNORS:

Fraser Pickersgill
Millennium Pharmaceuticals, Inc., 40 Landadowne Street, Cambridge, MA 02139
Nationality: United Kingdom

John Bishop
Millennium Pharmaceuticals, Inc., 40 Landadowne Street, Cambridge, MA 02139
Nationality: United States

Christoph Koellner
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Jean-Marc Gomez
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Achim Geiser
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Robert Hett
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Vincent Ammoscato
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

Stephen Munk
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

PATENT

REEL: 016893 FRAME: 0767

58

Practitioner's Docket No. MP183-102P1M

Young Lo

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

Fang-Ting Chiu

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

Vithal Kulkarni

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

have co-invented a certain invention entitled:

SYNTHESIS OF BORONIC ESTER AND ACID COMPOUNDS

for which they have executed an application for a United States patent, which was filed on March 30, 2004, under U.S. Application No. 60/557,535; and

WHEREAS,

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
40 Larddowne Street
Cambridge, MA 02139
State of Incorporation: Delaware

is desirous of acquiring ASSIGNORS' entire domestic and foreign right, title, and interest in and under the invention described in the patent application;

Now, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby, without reservations, sell, assign and transfer to

(Page 2 of 9)

PATENT
REEL: 016893 FRAME: 0768

25

345

Practitioner's Docket No. MPK03-102P1M

ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and to the invention in the United States and in every foreign country, and our entire right, title, and interest in and to the patent application and such other applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications and utility model applications) as may be filed on the invention in the United States or in any foreign country, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon; said invention, applications, and patents to be held and enjoyed by ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

ASSIGNORS hereby authorize the ASSIGNEE to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

ASSIGNORS hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein. ASSIGNORS further acknowledge that this assignment carries with it the right in ASSIGNEE to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the United States application (or any other application on the invention) to gain priority with respect to other applications.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that we will at any time upon request, without further or additional consideration, but at the expense of the ASSIGNEE, execute and deliver such additional assignments and other writings and do such additional acts as the ASSIGNEE may deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the United States or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representative of all parties hereto.

AND, ASSIGNORS do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

(Page 3 of 9)

PATENT
REEL: 015893 FRAME: 0769

54

Practitioner's Docket No. ~~MPH3-1971M~~

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fraser Pickersgill

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of John Bishop

Witness Address

Witness Address

Practitioner's Docket No. MP183-109P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Christoph Koellner

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Achim Geiser

Witness Address

Witness Address

(Page 5 of 9)

PATENT
REEL: 015893 FRAME: 0771

51
348

Practitioner's Docket No. MP783-192P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Robert Hett

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this 17TH day of SEPTEMBER, 2004.

Signature of Vincent Ammoscato
VINCE 9/17/04

Pransen
Witness

18655 KRAUSE ST. RIVERVIEW MI 48192
Address

William D Smith
Witness

18655 Krause Street Riverview MI 48192
Address

(Page 6 of 9)

PATENT
REEL: 016893 FRAME: 0772

57



Practitioner's Docket No. MP103-102P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Stephen Munk

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Young Lo

Witness Address

Witness Address

Practitioner's Decklet No. MPH3-109P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Jean-Marc Gomez

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fang-Ting Chiu

Witness

Address

Witness

Address

(Page 8 of 9)

PATENT
REEL: 016893 FRAME: 0774

57

Practitioner's Docket No. MP103-102P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vithal Kulkarni

Witness Address

Witness Address

~~60~~

Practitioner's Docket No. MPK3-102F1M

PATENT

**For: U.S. and Foreign Rights
For: U.S. Application
By: Inventors**

ASSIGNMENT OF INVENTION

WHEREAS,

ASSIGNORS:

**Fraser Pickersgill
Millennium Pharmaceuticals, Inc., 40 Landdowne Street, Cambridge, MA 02139
Nationality: United Kingdom**

**John Bishop
Millennium Pharmaceuticals, Inc., 40 Landdowne Street, Cambridge, MA 02139
Nationality: United States**

**Christoph Koellner
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland**

**Jean-Marc Gomez
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland**

**Achim Geiser
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland**

**Robert Hett
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland**

**Vincent Ammoscato
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States**

**Stephen Munk
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States**

**PATENT
REEL: 015893 FRAME: 0776**

Practitioner's Docket No. **MP223-192P1M**

Young Lo

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372

Nationality: United States

Fang-Ting Chiu

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372

Nationality: United States

Vithal Kulkarni

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372

Nationality: United States

have co-invented a certain invention entitled:

SYNTHESIS OF BORONIC ESTER AND ACID COMPOUNDS

for which they have executed an application for a United States patent, which was filed on March 30, 2004, under U.S. Application No. 60/557,535; and

WHEREAS,

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.

40 Landdowne Street

Cambridge, MA 02139

State of Incorporation: Delaware

is desirous of acquiring ASSIGNORS' entire domestic and foreign right, title, and interest in and under the invention described in the patent application;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby, without reservations, sell, assign and transfer to

(Page 2 of 9)

PATENT
REEL: 015893 FRAME: 0777

Practitioner's Docket No. MP893-102P1M

ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and to the invention in the United States and in every foreign country, and our entire right, title, and interest in and to the patent application and such other applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications and utility model applications) as may be filed on the invention in the United States or in any foreign country, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon; said invention, applications, and patents to be held and enjoyed by ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

ASSIGNORS hereby authorize the ASSIGNEE to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

ASSIGNORS hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein. ASSIGNORS further acknowledge that this assignment carries with it the right in ASSIGNEE to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the United States application (or any other application on the invention) to gain priority with respect to other applications.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that we will at any time upon request, without further or additional consideration, but at the expense of the ASSIGNEE, execute and deliver such additional assignments and other writings and do such additional acts as the ASSIGNEE may deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the United States or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representative of all parties hereto.

AND, ASSIGNORS do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

(Page 3 of 9)

PATENT
REEL: 016893 FRAME: 0778

355

Practitioner's Docket No. **MP183-182P1M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fraser Pickering

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of John Bishop

Witness

Address

Witness

Address

(Page 4 of 9)

PATENT
REEL: 015893 FRAME: 0779

~~64~~

Practitioner's Docket No. **MP103-105P1M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Christoph Koedner

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Achim Gelsner

Witness

Address

Witness

Address

(Page 5 of 9)

PATENT
REEL: 016893 FRAME: 0780

Practitioner's Docket No. **MP103-1997JM**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Robert Hett

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vincent Annoscato

Witness Address

Witness Address

(Page 6 of 9)

PATENT
REEL: 016893 FRAME: 0781

Practitioner's Docket No. MP183-192P1M

158
358

IN WITNESS WHEREOF, I have hereunto set hand and seal this 17th day of September, 2004.

[Signature]
Signature of Stephen Munk

[Signature] 18655 Keanee St. Riverview MI 48192
Witness Address

[Signature] 18655 Keanee St. Riverview MI 48192
Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Young Lo

Witness Address

Witness Address

(Page 7 of 9)

PATENT
REEL: 015893 FRAME: 0782

67

Practitioner's Decklet No. **MP23-192P1M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Jean-Marc Gomez

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fang-Ting Chia

Witness

Address

Witness

Address

(Page 8 of 9)

PATENT
REEL: 016893 FRAME: 0783

Practitioner's Docket No. MP03-102PLM

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vithal Kulkarni

Witness Address

Witness Address

Practitioner's Docket No. MPH3-197F1M

PATENT

For: U.S. and Foreign Rights
For: U.S. Application
By: Inventors

ASSIGNMENT OF INVENTION

WHEREAS,

ASSIGNORS:

Fraser Pickersgill
Millennium Pharmaceuticals, Inc., 40 Landdowne Street, Cambridge, MA 02139
Nationality: United Kingdom

John Bishop
Millennium Pharmaceuticals, Inc., 40 Landdowne Street, Cambridge, MA 02139
Nationality: United States

Christoph Koellner
AMCIS-AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Jean-Marc Gomez
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Achim Geiser
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Robert Hett
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Vincent Ammoscato
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

Stephen Munk
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

PATENT

REEL: 015893 FRAME: 0785

70

362

Practitioner's Docket No. MP88-19721M

Young Lo

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

Fang-Ting Chiu

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

Vithal Kulkarni

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

have co-invented a certain invention entitled:

SYNTHESIS OF BORONIC ESTER AND ACID COMPOUNDS

for which they have executed an application for a United States patent, which was filed on March 30, 2004, under U.S. Application No. 60/557,535; and

WHEREAS,

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
40 Landsdowne Street
Cambridge, MA 02139
State of Incorporation: Delaware

is desirous of acquiring ASSIGNORS' entire domestic and foreign right, title, and interest in and under the invention described in the patent application;

Now, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby, without reservations, sell, assign and transfer to

(Page 2 of 9)

PATENT
REEL: 015893 FRAME: 0786

[Handwritten mark]

Practitioner's Docket No. **MP103-102P1M**

ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and to the invention in the United States and in every foreign country, and our entire right, title, and interest in and to the patent application and such other applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications and utility model applications) as may be filed on the invention in the United States or in any foreign country, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon; said invention, applications, and patents to be held and enjoyed by **ASSIGNEE** for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

ASSIGNORS hereby authorize the **ASSIGNEE** to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

ASSIGNORS hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in **ASSIGNEE** to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of **ASSIGNEE**'s selection and the right to procure the grant of all such Letters Patent to **ASSIGNEE** for its own name as assignee of the entire right, title and interest therein. **ASSIGNORS** further acknowledge that this assignment carries with it the right in **ASSIGNEE** to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the United States application (or any other application on the invention) to gain priority with respect to other applications.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that we will at any time upon request, without further or additional consideration, but at the expense of the **ASSIGNEE**, execute and deliver such additional assignments and other writings and do such additional acts as the **ASSIGNEE** may deem necessary or desirable to perfect the **ASSIGNEE**'s enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the United States or of any and all foreign countries on the invention, and in enforcing any rights or causes in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representative of all parties hereto.

AND, **ASSIGNORS** do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said **ASSIGNEE**, its successors, assigns, and legal representatives.

(Page 3 of 9)

PATENT
REEL: 016893 FRAME: 0787

Practitioner's Docket No. **MP23-192R1M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fraser Pickering III

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of John Bishop

Witness Address

Witness Address

(Page 4 of 9)

PATENT
REEL: 015893 FRAME: 0788

IN WITNESS WHEREOF, I have herunto set hand and seal this _____ day of _____, 2004.

Signature of Christoph Koellner

Witness Address

Witness Address

IN WITNESS WHEREOF, I have herunto set hand and seal this _____ day of _____, 2004.

Signature of Achim Gaiser

Witness Address

Witness Address

Practitioner's DocId No. **MP183-102P1M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Robert Hatt

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vincent Ammascato

Witness

Address

Witness

Address

(Page 6 of 9)

PATENT
REEL: 016893 FRAME: 0790

Practitioner's Docket No. MP103-102P1M

1
367

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Stephen Munk

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this 20th day of September, 2004.

M. J. S. Lo
Signature of Young Lo

John D. B. 5781 Fire Light Terrace, Manassas, VA, 23600
Witness Address

Robert J. Brownell 4334 Vauxhall Road, Richmond, VA 23234
Witness Address

(Page 7 of 9)

PATENT
REEL: 016893 FRAME: 0791

2/6

Practitioner's Docket No. MP03-102F1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Jean-Marc Gomez

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fang-Ting Chia

Witness Address

Witness Address

Practitioner's Docket No. **MPH3-192P1M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of **Vithal Kulkarni**

Witness Address

Witness Address

78

Practitioner's Docket No. **MP83-102P1M**

PATENT

For: U.S. and Foreign Rights
For: U.S. Application
By: Inventors

ASSIGNMENT OF INVENTION

WHEREAS,

ASSIGNORS:

Fraser Pickersgill
Millennium Pharmaceuticals, Inc., 40 Landsdowne Street, Cambridge, MA 02139
Nationality: United Kingdom

John Bishop
Millennium Pharmaceuticals, Inc., 40 Landsdowne Street, Cambridge, MA 02139
Nationality: United States

Christoph Koellner
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Jean-Marc Gomez
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Achim Geiser
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Robert Hett
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Vincent Ammoscato
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

Stephen Munk
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

PATENT

REEL: 016893 FRAME: 0794

5

371

Practitioner's Docket No. MP193-102P1M

Young Lo

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372

Nationality: United States

Fang-Ting Chiu

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372

Nationality: United States

Vithal Kulkarni

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372

Nationality: United States

have co-invented a certain invention entitled:

SYNTHESIS OF BORONIC ESTER AND ACID COMPOUNDS

for which they have executed an application for a United States patent, which was filed on March 30, 2004, under U.S. Application No. 60/557,535; and

WHEREAS,

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.

40 Landsdowns Street

Cambridge, MA 02139

State of Incorporation: Delaware

is desirous of acquiring ASSIGNORS' entire domestic and foreign right, title, and interest in and under the invention described in the patent application;

Now, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby, without reservations, sell, assign and transfer to

(Page 2 of 9)

PATENT
REEL: 015893 FRAME: 0795

~~80~~

372

Practitioner's Docket No. MP183-102F1M

ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and to the invention in the United States and in every foreign country, and our entire right, title, and interest in and to the patent application and such other applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications and utility model applications) as may be filed on the invention in the United States or in any foreign country, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon; said invention, applications, and patents to be held and enjoyed by ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

ASSIGNORS hereby authorize the ASSIGNEE to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

ASSIGNORS hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein. ASSIGNORS further acknowledge that this assignment carries with it the right in ASSIGNEE to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the United States application (or any other application on the invention) to gain priority with respect to other applications.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that we will at any time upon request, without further or additional consideration, but at the expense of the ASSIGNEE, execute and deliver such additional assignments and other writings and do such additional acts as the ASSIGNEE may deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the United States or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representative of all parties hereto.

AND, ASSIGNORS do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

(Page 3 of 9)

PATENT
REEL: 016893 FRAME: 0796

87

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fraser Pickering

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of John Bishop

Witness

Address

Witness

Address

(Page 4 of 9)

PATENT
REEL: 016893 FRAME: 0797

Practitioner's Docket No. MP03-102P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Christoph Koellner

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Achim Gelsner

Witness Address

Witness Address

(Page 5 of 9)

PATENT
REEL: 015893 FRAME: 0798

375

Practitioner's Docket No. MP103-109P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Robert Hett

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vincent Ammosento

Witness Address

Witness Address

(Page 6 of 9)

PATENT
REEL: 015893 FRAME: 0799

84

Practitioner's Docket No. **MP03-1971M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Stephen Munk

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Young Lo

Witness Address

Witness Address

85

15
377

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Jean-Marc Gomez

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this 20th day of September, 2004.

Fang-Ting Chin
Signature of Fang-Ting Chin

J. A. B.
Witness

8731 Fire Light Terrace, Mosley, VA 23126
Address

Roberts. Connell Jr
Witness

4334 Vaunderhall Road, Richmond, VA 23234
Address

(Page 8 of 9)

PATENT
REEL: 016893 FRAME: 0801

86



378

Practitioner's Docket No. ~~MP03-10271M~~

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vithal Kulkarni

Witness Address

Witness Address

(Page 9 of 9)

PATENT
REEL: 016883 FRAME: 0802

72

Practitioner's Docket No. MP183-10921M

PATENT

For: U.S. and Foreign Rights
For: U.S. Application
By: Inventors

ASSIGNMENT OF INVENTION

WHEREAS,

ASSIGNORS:

Fraser Pickersgill
Millennium Pharmaceuticals, Inc., 40 Landsdowne Street, Cambridge, MA 02139
Nationality: United Kingdom

John Bishop
Millennium Pharmaceuticals, Inc., 40 Landsdowne Street, Cambridge, MA 02139
Nationality: United States

Christoph Koellner
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Jean-Marc Gomez
AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Switzerland
Nationality: Switzerland

Achim Geiser
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Robert Hett
CarboGen Laboratories (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil, Switzerland
Nationality: Switzerland

Vincent Ammoscato
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

Stephen Munk
Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192
Nationality: United States

PATENT
REEL: 015893 FRAME: 0803

[Handwritten signature]

Practitioner's Docket No. **MP183-102F1M**

Young Lo

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

Fang-Ting Chiu

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

Vithal Kulkarni

Boehringer Ingelheim Chemicals, Inc., 2820 North Normandy Drive, P.O. Box 1658,
Petersburg, Virginia 23805-9372
Nationality: United States

have co-invented a certain invention entitled:

SYNTHESIS OF BORONIC ESTER AND ACID COMPOUNDS

for which they have executed an application for a United States patent, which was filed on March 30, 2004, under U.S. Application No. 60/557,535; and

WHEREAS,

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
40 Landdowne Street
Cambridge, MA 02139
State of Incorporation: Delaware

is desirous of acquiring ASSIGNORS' entire domestic and foreign right, title, and interest in and under the invention described in the patent application;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby, without reservations, sell, assign and transfer to

(Page 2 of 9)

PATENT
REEL: 016893 FRAME: 0804

89

Practitioner's Docket No. **MP183-102P1M**

ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and to the invention in the United States and in every foreign country, and our entire right, title, and interest in and to the patent application and such other applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications and utility model applications) as may be filed on the invention in the United States or in any foreign country, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon; said invention, applications, and patents to be held and enjoyed by ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

ASSIGNORS hereby authorize the ASSIGNEE to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

ASSIGNORS hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein. ASSIGNORS further acknowledge that this assignment carries with it the right in ASSIGNEE to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the United States application (or any other application on the invention) to gain priority with respect to other applications.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

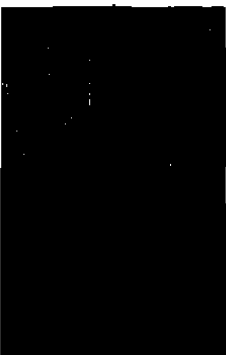
ASSIGNORS further covenant that we will at any time upon request, without further or additional consideration, but at the expense of the ASSIGNEE, execute and deliver such additional assignments and other writings and do such additional acts as the ASSIGNEE may deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the United States or of any and all foreign countries on the invention, and in enforcing any rights or causes in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representative of all parties hereto.

AND, ASSIGNORS do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

(Page 3 of 9)

PATENT
REEL: 015893 FRAME: 0806

26



Practitioner's Docket No. **MPH3-102P1M**

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fraser Pickersgill

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of John Bishop

Witness Address

Witness Address

Practitioner's Docket No. MP783-169F1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Christoph Koelner

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Achim Gekker

Witness

Address

Witness

Address

(Page 5 of 9)

PATENT
REEL: 015893 FRAME: 0807

92

Practitioner's Docket No. MP183-10771M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Robert Hett

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Vincent Ammoscato

Witness Address

Witness Address

93

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Stephen Munk

Witness Address

Witness Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Young Lo

Witness Address

Witness Address

386

Practitioner's Docket No. MPK3-107P1M

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Jean-Marc Gomez

Witness

Address

Witness

Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this _____ day of _____, 2004.

Signature of Fang-Ting Chiu

Witness

Address

Witness

Address

(Page 8 of 9)

PATENT
REEL: 016893 FRAME: 0810

95

15
387

Practitioner's Docket No. MP103-10221M

IN WITNESS WHEREOF, I have hereunto set hand and seal this 22 day of September, 2004.

V.R. Kulkarni

Signature of ~~Vithal Kulkarni~~
Vithalanand R. Kulkarni

Rajna M.H.
Witness

1003-N-Hamilton St, # G, Richmond, VA-23221, U.S.A.
Address

[Signature]
Witness

2820 N. Normandy Dr, Petersburg, VA 23805
Address

(Page 9 of 9)

PATENT
REEL: 015893 FRAME: 0811

9/6

Provisional Patent Application No. 60/557,535

(Page 2 of 3)

John Bishop
Millennium Pharmaceuticals, Inc.
40 Landsdowne Street,
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United States

Execution Date: September 14, 2004

Christoph Koellner
AMCIS AG
Hauptstrasse 159-173
CH-4416 Bubendorf
Switzerland

Execution Date: September 22, 2004

Jean-Marc Gomez
AMCIS AG
Hauptstrasse 159-173
CH-4416 Bubendorf
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Execution Date: September 20, 2004

Achim Geiser
CarboGen Laboratories (Neuland) AG
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CH-5502 Hunzenschwil
Switzerland

Execution Date: September 24, 2004

Robert Hett
CarboGen Laboratories (Neuland) AG
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Switzerland

Execution Date: September 24, 2004

Vince Ammoscato
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18655 Krause Street
Riverview, Michigan 48192
United States

Execution Date: September 17, 2004

PATENT
REEL: 016893 FRAME: 0812

92

Provisional Patent Application No. 60/557,515

(Page 3 of 3)

**Stephen Munk
Ash Stevens, Inc.
18655 Krause Street
Riverview, Michigan 48192
United States**

Execution Date: September 17, 2004

**Young Lo
Boehringer Ingelheim Chemicals, Inc.
2820 North Normandy Drive
P.O. Box 1658
Petersburg, Virginia 23805-9372**

Execution Date: September 20, 2004

**Fang-Ting Chiu
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Execution Date: September 20, 2004

**Vithalanand R. Kulkarni
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2820 North Normandy Drive
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Petersburg, Virginia 23805-937**

Execution Date: September 22, 2004

RECORDED: 10/18/2004

**PATENT
REEL: 015893 FRAME: 0813**

TRADUCCION OFICIAL No. 06-0803

de un documento escrito en INGLES, el cual para su identificación lleva el sello de la Traductora e Intérprete Oficial, Res. 2755/68 y 01144/97 de Minjusticia, al igual que la presente.

ESTADOS UNIDOS DE AMERICA**A TODOS A QUIENES LOS PRESENTES LLEGAREN:****DEPARTAMENTO DE COMERCIO DE ESTADOS UNIDOS****Oficina De Patentes y Marcas de Estados Unidos****Mayo 3, 2005**

**CERTIFICAMOS POR LA PRESENTE QUE LA ANEXA ES COPIA
AUTENTICA DE LOS ARCHIVOS DE ESTA OFICINA DE UN DOCUMENTO
REGISTRADO EL 18 DE Octubre de 2004.**

Por autoridad del**COMISIONADO DE PATENTES Y MARCAS****(fdo) ilegible****E. BORNETT****Funcionario de Certificación****(Sello en oblea dorada)**

Archivo de Practicante No. MP103-1091M**Para: Derechos de Estados Unidos y Extranjeros****Para: Solicitud de Estados Unidos****Por: Inventores****CESION DE INVENCION****CONSIDERANDO QUE**

LOS CEDENTES:**Fraser Pickersgill****Millennium Pharmaceuticals, Inc., 40 Landsowne Street, Cambridge, MA 02139****Nacionalidad: Reino Unido****John Bishop****Millennium Pharmaceuticals, Inc. 40 Landsowne Street, Cambridge, MA 02139****Nacionalidad: Estados Unidos****Christoph Koellner****AMCIS AG, Hauptstrasse 159-173, CH-4416 Bubendorf, Suiza****Nacionalidad: Suiza****Jean-Marc Gomez****AMCIS AG, Hauptstrasse 159-173, CH 4416 Bubendorf, Suiza****Achim Geiser****Carbonen Laboratorios (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil,****Suiza Nacionalidad: Suiza****Robert Hett****Carbonen Laboratorios (Neuland) AG, Neulandweg 5, CH-5502 Hunzenschwil,****Suiza Nacionalidad: Suiza****Vincent Ammoscato****Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192****Nacionalidad. Estados Unidos****Stephen Punk****Ash Stevens, Inc. 18655 Krause Street, Riverview, Michigan 48192****Nacionalidad: Estados Unidos**

Young Lo

**Boehringer Ingelheim Chemicals, Inc., 2820 North Normando Drive, P. O. Box
1658,**

Petersburg, Virginia 23805-9372

Nacionalidad: Estados Unidos

Fang-Ting Chiu

**Boehringer Ingelheim Chemicals, Inc. 2820 North Normando Drive, P. O. Box
1658, Petersburg, Virginia 23805-9372**

Nacionalidad: Estados Unidos

Vithal Kulkarni

**Boehringer Ingelheim Chemicals, Inc. 2820 North Normando Drive, P. O. Box
1658, Petersburg, Virginia 23805-9372**

Nacionalidad: Estados Unidos

Hemos inventado en conjunto cierta invención titulada:

SINTESIS DE ESTER BORONICO Y COMPUESTOS ACIDOS

**Para la cual hemos presentado una solicitud de patente de Estados Unidos, el
30 de Marzo de 2004 bajo la solicitud de Estados Unidos No. 60/557,535; y**

CONSIDERANDO QUE

EL CESIONARIO:

MILLENNIUM PHARMACEUTICALS, INC.

40 Landsdowne Street

Cambridge, MA 02139

Estado de constitución: Delaware



Desea adquirir todo derecho, título e interés local y extranjero del CEDENTE en y sobre la invención descrita en la solicitud de parten;

EN CONSECUENCIA, por una consideración positiva y de valor, cuyo recibo y suficiencia se reconocen por medio del presente, los CEDENTES venden, ceden y traspasan por este documento, sin reservas, a la CESIONARIA, sus sucesores, cesionario y representantes legal, nuestro derecho, título e interés plenos en y sobre la invención en los Estados Unidos y en todo país extranjero, y nuestro derecho, título e interés plenos en y sobre la solicitud de patente y demás solicitudes (tales como solicitudes provisionales, no provisionales, continuaciones, continuaciones en parte, divisionales, reexpediciones, nuevos exámenes, solicitudes de fase nacional, incluyendo solicitudes de patente menores y modelos de utilidad, que puedan presentarse para la invención en los Estados Unidos o en cualquier país extranjero, y patentes, extensiones, o derivaciones de las mismas, tanto locales como extranjeras que puedan expedirse para la misma; dicha invención, solicitudes y patentes para ser poseídas y disfrutadas por el CESIONARIO para su propio uso y nombre y para sus sucesores, cesionarios y representantes legales, por todo el término para el cual dichas patentes puedan ser otorgadas tan plena y totalmente como si las mismas hubiesen sido poseídas por nosotros si esta cesión y venta no se hubiesen hecho.

LOS CEDENTES autorizan por medio del presente al CESIONARIO para insertar en el documento de cesión la fecha de presentación y número de solicitud si la fecha y número no están disponibles en la fecha de otorgamiento de este instrumento.



LOS CEDENTES por medio del presente reconocen que esta cesión, que constituye nuestro derecho título e interés sobre dicha invención, conlleva el derecho del CESIONARIO para solicitud y obtener de las autoridades competentes en todos los países del mundo toda clase de Patentes mediante apoderados y agentes de la escogencia del CESIONARIO y el derecho a tramitar el otorgamiento de toda Patente al CESIONARIO en su propio nombre como cesionario de todo derecho, título e interés sobre la misma. LOS CEDENTES reconocen además que esta cesión conlleva el derecho a favor del CESIONARIO para reclamar bajo el Tratado de Cooperación de Patentes, la Convención Internacional y/u otro arreglo internacional por cualquier solicitud, la fecha de la solicitud de Estados Unidos (o cualquier otra solicitud sobre la invención) para ganar prioridad con respecto a otras solicitudes.

LOS CEDENTES por medio del presente acuerdan que no se ha hecho ni se hará ninguna cesión, venta, acuerdo o gravamen que pueda estar en conflicto con este acuerdo.

Los CEDENTES acuerdan además que en cualquier momento a solicitud, sin otra compensación adicional, pero a costa de la CESIONARIA, otorgaremos y entregaremos las cesiones adicionales y otros escritos y haremos los actos adicionales que la CESIONARIA pueda considerar necesario o aconsejable para perfeccionar el disfrute de esta cesión por la CESIONARIA, y prestaremos toda la asistencia necesaria para hacer la solicitud y obtener las patentes originales, continuación, continuación en parte, divisiones, reexpediciones, nuevos exámenes y patentes de fase nacional de los Estados Unidos o de cualesquiera otros países extranjeros sobre la invención y para exigir derechos



o escogencias de acción que se originen como resultado de tales solicitudes o patentes, y mediante el otorgamiento de declaraciones y otras afirmaciones, quedando entendido que el anterior compromiso y acuerdo será obligatorio y redundará en beneficio de los cesionarios y representante legal de todas las partes del presente.

Y LOS CEDENTES autorizan y solicitan por medio del presente al Comisionado de Patentes de los Estados Unidos que emitan las Patentes que sean otorgadas sobre dicha solicitud o solicitudes con base en la misma a dicha CESIONARIA, sus sucesores, cesionarios y representantes legales.
EN FE DE LO CUAL, he impuesto aquí mi firma y sello hoy día 13 de Septiembre de 2004.

(fdo) ilegible

Firma de Fraser Pickersgill

(fdo) ilegible

350 Center Road, Princeton NJ, 08546

Testigo

Dirección

(fdo) ilegible

350 Center Road, Princeton NJ, 08546

Testigo

Dirección

(Sello): WENDY M. DZBENSKI

Notario Público de New Jersey

La comisión vence 4/11/2006

EN FE DE LO CUAL, he impuesto aquí mi firma y sello hoy día 14 de Septiembre de 2004.

(fdo) John Bishop

Firma de John Bishop



(fdo) ilegible 24 Whitney St. Saugui MA 01906

Testigo Dirección

(fdo) ilegible 15 Hancock St., Milford, MA 01757

Testigo Dirección

EN FE DE LO CUAL, he impuesto aquí mi firma y sello hoy día 22 de Septiembre de 2004.

(fdo) Christopher Koellner

Firma de Christopher Koellner

(fdo) ilegible Hampa Str. 79, 4437 Waldenburg

Testigo Dirección

(fdo) ilegible Edlelensk 4l, 4415 Lausen

Testigo Dirección

EN FE DE LO CUAL, he impuesto aquí mi firma y sello hoy día 20 de Septiembre de 2004.

(fdo) ilegible

Firma de Jean-Marc Gomez

(fdo) Andre Kirsch AMCIS AG Hamptstr. 159 CH-4416 Bubendorf

Testigo Dirección

(fdo) ilegible AMCIS AG, Hamptstr. 171, CH-4416 Bubendorf

Testigo Dirección

EN FE DE LO CUAL, he impuesto aquí mi firma y sello hoy día 24 de Septiembre de 2004.

(fdo) ilegible



Firma de Achim Geiser

(fdo) ilegible Grunicherwer 22, 5502 Hunzenschmil

Testigo Dirección

(fdo) ilegible (ilegible) 14 CH-5102 (ilegible)

Testigo Dirección

EN FE DE LO CUAL, he impuesto aquí mi firma y sello hoy día 14 de
Septiembre de 2004.

(fdo) Robert Hett

Firma de Robert Hett

(fdo) ilegible AAvorstadt 23, 5600 Lenzburg

Testigo Dirección

(fdo) ilegible Steinfeldstrasse 24, 5033 Burs AG

Testigo Dirección

EN FE DE LO CUAL, he impuesto aquí mi firma y sello hoy día 17 de
Septiembre de 2004.

(fdo) ilegible

Firma de Vince Ammoscato 9/17/04

(fdo) ilegible 18655 Krause St. Riverview MI 48192

Testigo Dirección

(fdo) ilegible 18655 Krause Street, Riverview MI 48192

Testigo Dirección

EN FE DE LO CUAL, he impuesto aquí mi firma y sello hoy día 17 de
Septiembre de 2004.



(fdo) ilegible

Firma de Stephen Munk

(fdo) ilegible 18655 Krause St. Riverview MI 48192

Testigo Dirección

(fdo) ilegible 18655 Krause St. Riverview, MI 48192

Testigo Dirección

EN FE DE LO CUAL, he impuesto aquí mi firma y sello hoy día 20 de Septiembre de 2004.

(fdo) ilegible

Firma de Young Lo

(fdo) ilegible 5731 Fire Light Terrace, Moseley, VA 23120

Testigo Dirección

(fdo) ilegible 4334 Vauxhall Road, Richmond, VA 23234

Testigo Dirección

EN FE DE LO CUAL, he impuesto aquí mi firma y sello hoy día 20 de Septiembre de 2004.

(fdo) ilegible

Firma de Fang-Ting Chiu

(fdo) ilegible 8731 Fire Light Terrace, Moseley, VA 23720

Testigo Dirección

(fdo) ilegible 4334 Vauxhall Road, Richmond, VA 23234

Testigo Dirección



399

EN FE DE LO CUAL, he impuesto aquí mi firma y sello hoy día 22 de
Septiembre de 2004.

(fdo) V.R. Kulkarni

Firma de Vithalanand R. Kulkarni

(fdo) ilegible 1003- N. Hamilton St., No. 01, Richmond, VA 23221
USA

Testigo Dirección

(fdo) ilegible 2829 N. Normando Dr., Petersburg, VA 23805

Testigo Dirección

APOSTILLA

(Convención de La Haya de Octubre 5, 1961)

1. País: Estados Unidos de América

Este documento público

2. ha sido firmado por E. Bornett

3. actuando en su calidad de Funcionario de Certificación

4. lleva el sello de Oficina de Patentes y Marcas de Estados Unidos

Certificado

5. En Washington, D. C.

6. El diecinueve de Octubre de 2006

7. por el Funcionario de Autenticación, Departamento de Estado de Estados
Unidos

8. No. 07001951-13

9. Sello:

10. Firma:

(fdo) ilegible

DORA DUQUE DE BERNAL
TRADUCTORA E INTÉRPRETE OFICIAL
REG. 02735/00 Y 02744/02 - MINISTERIO
DE JUSTICIA

109

MINISTERIO DE RELACIONES
EXTERIORES

NO SE ASUME
RESPONSABILIDAD DEL TEXTO

b2234h

7007 FEB -8 P 1:21

Dora Duque
COTA FIRMA APARECE EN EL
DOCUMENTO DESEMPENA
LAS FUNCIONES INDICADAS

JEFE DE LEGALIZACIONES
SANTAFE DE BOGOTA D.C.

400

Patrick O. Hatchett

(Sello en relieve)

ES TRADUCCION FIEL Y COMPLETA, a la cual me remito,

Bogotá, D. C., Febrero 6, 2007.



DORA DUQUE DE BERNAL
TRADUCTORA E INTERPRETE OFICIAL
REG. 02758/68 Y 01144/97 - MINISTERIO
REP. DE COLOMBIA

HD